A Level Mathematics

Chapter 1

Algebraic Expressions

Chapter Overview

1. Basic Index Laws

2. Negative/ Fractional Indices

3. Factorise Quadratics and Cubics

4. Expanding Brackets

5. Surds



Basic Index Laws

Examples

1. Simplify

2. Simplify

3. Simplify

4. Simplify ( 2 methods)

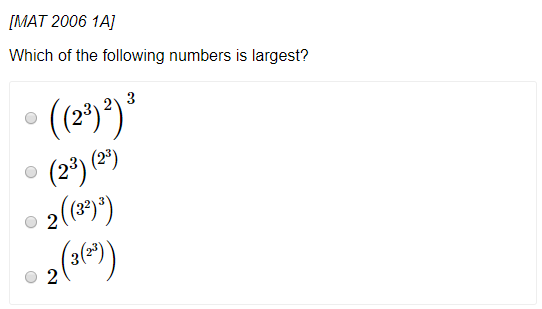
Test Your Understanding:

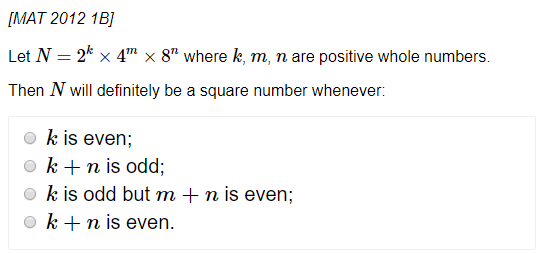
1. Simplify 2. Simplify

3.Expand and simplify

4.Simplify

Extension





Exercise 1A Page 3

Negative and Fractional Indices

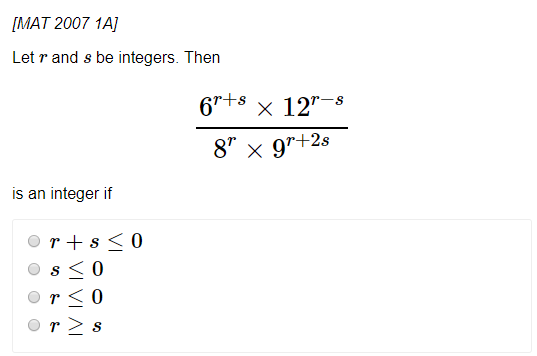
1. Prove that 2. Evaluate

1. Evaluate 4. Simplify

5. Evaluate

6. If , determine in the form where are constants

Extension



Exercise 1D Page 11